

CLAIMS

1. A desiccant package comprising:
 - a. an internal cage component having a base unit, said base unit comprising a sealing section and a passable section, said passable section having a plurality of passages passing through a length of said base unit;
 - b. a porous desiccant bag, said desiccant bag being configured to receive said internal cage component and a volume of desiccant material;
 - c. wherein said internal cage component and said desiccant material are disposed inside said desiccant bag.
2. A desiccant package as recited in claim 1 wherein said desiccant bag comprises an inside surface and wherein said sealing section presses snugly against said inside surface to form a sealing area thereat.
3. The desiccant package as recited in claim 1 wherein said length of said base unit is defined by a pair of side surfaces and wherein said passages pass through said side surfaces to provide a plurality of passageways through said length of said base unit.
4. The desiccant package as recited in claim 1 wherein said desiccant bag is formed from a filter media material.
5. The desiccant package as recited in claim 4 wherein said internal cage component is formed from plastic or metal material.
6. The desiccant package as recited in claim 5 wherein said base unit is formed from a material selected from the group consisting of nylon, temperature resistant plastic, stainless steel, and aluminum.

7. The desiccant package as recited in claim 1 wherein said internal cage component further comprises a stabilizer section extending axially away from said base unit.
8. The desiccant package as recited in claim 7 wherein said stabilizer section protrudes beyond an end of said desiccant bag, said end of said desiccant bag being sealed around said protruding stabilizer section to prevent the escape of said desiccant material.
9. The desiccant package as recited in claim 7 wherein said stabilizer section protrudes beyond both ends of said desiccant bag, said both ends of said desiccant bag being sealed around said protruding stabilizer section to prevent the escape of said desiccant material.
10. A method for installing a desiccant package into a chamber of an integral receiver dryer, said method comprising the steps of:
 - a. providing an internal cage component having a base unit, said base unit comprising a sealing section and a passable section, said passable section having a plurality of passages passing through a length of said base unit;
 - b. providing a porous desiccant bag to receive said internal cage component and a volume of desiccant material;
 - c. enclosing said internal cage component and said desiccant material inside said desiccant bag, wherein said sealing section presses snugly against an inside surface of said desiccant bag to form a sealing area thereat;
 - d. installing said desiccant package through an open end of said chamber, wherein said sealing area is effective to provide a tight seal against an inner diameter of said chamber, said internal cage component being configured to position said sealing area between an inlet port and an outlet port of said chamber.

11. The method as recited in claim 10 wherein said desiccant bag is formed from a filter media material.
12. The method as recited in claim 11 wherein said internal cage component is formed from plastic or metal material.
13. The method as recited in claim 12 wherein said base unit is formed from a material selected from the group consisting of nylon, temperature resistant plastic, stainless steel, and aluminum.
14. The method as recited in claim 10 wherein said dryer comprises a tube having a fluid inlet port and a fluid outlet port and wherein said installing d) further includes placing said sealing area between said fluid inlet port and said fluid outlet port to provide a seal thereat.
15. The method as recited in claim 10 wherein said internal cage component further comprises a stabilizer section extending axially away from said base unit.
16. The method as recited in claim 15 wherein said stabilizer section protrudes beyond an end of said desiccant bag, said end of said desiccant bag being sealed around said stabilizer section to prevent the escape of said desiccant material.
17. The method as recited in claim 15 wherein said stabilizer section protrudes beyond both ends of said desiccant bag, said both ends of said desiccant bag being sealed around said stabilizer section to prevent the escape of said desiccant material, said stabilizer having a proximal end and a distal end, wherein the lengths of said ends are adapted to about respective ends of said chamber.